

# The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools K3HS. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$24 U.S. first class mail, \$27 Canada/Mexico airmail, and \$30 by airmail elsewhere for 12 issues. Payments may be made to k6fv through PayPal. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4554 USA. My Internet address is victor.frank@sri.com. My web site is <http://www.qsl.net/k6fv>. The bulletin may be freely quoted, provided that credit is given.

## DX Operations

Most of the listings in this column came from OZ6OM's DX News and SMIRK.

**Spratley Is., 9M4SDX:** is the call sign issued to a large group of Japanese and Malayan amateurs scheduled for all bands including 6m between March 10-19.

**Vietnam, 3W9JR:** OK1JR/NT3I has obtained a license for 12, 15, 17 and 20m CW/SSB only; and is hoping to obtain permission for the 6m and the low bands sometime during his two-year stay.

**Cambodia, XU:** A group of three Japanese radio amateurs plans 160-6m operation from Sihanoukville between March 16-19.

**Democratic Republic of Congo, 9Q1D:** Gus is now active for evening TEP with 100W into a 4 el beam.

**Senegal & Guinea-Bissau, 6W/J5/:** Look for a group of German amateurs on 160-6m from Cap Skirring (IK12pi) between March 3-23 and from a camp north of Verela village (IK12qh) March 4-22.

**Nigeria, 5N2/:** Marek, SQ8JCA, has received his license and is now operating SSB only on 80-6m. He plans to be in the country until June 2007. Watch for him around 1100Z and after 1600Z.

**Jersey, MJ:** Look for Pete, K8PT, and Craig, K3PLV, to be on 160-6m from March 14-22. While on the island, there e-mail address will be k8pt@hotmail.com. Schedules can be arranged before they leave at K8pt@arrl.net.

**Faroe Is., OY:** Jan, OZ1IIL, is going to the Faroe Islands in April and is giving consideration to bringing equipment for 6m as well as HF.

**Market Reef, OJ0:** 3-4 operators are planning a DXpedition to Market Reef for July 1-7.

**Iceland, TF/IW5DCE:** Fabio, IW5DCE, will be on HF-6m over the next five months.

**Canada, VY0ICE:** Steve, VE2TKH, is active on 80-6m from Iqauluit, Baffin Is (NA-047) until May 30, 2007.

**Bahamas, C6AGN:** Bill plans to be active on 160-6m from March 23 until June 10.

**Haiti, HH4/W3CMP:** Chris hopes to be active from St. Louis du Nord, Haiti (grid FK39) from June 17-27.

**Dominican Republic, HI0C:** An 6m expedition to Isla Cabras (NA-122)(grid FK39) is planned for June 9-17.

**Mexico, 4A3IH:** A group of XE operators plans to operate 6 and 2m from Roqueta Is between May 14-19 and Ixtapa Is between May 21-26.

**Belize, V31JP:** Joe, K8GP, is active on 160-6m until early April 2007.

**Costa Rica, TI1DX:** Ed, TI8AA, indicates a DXpedition will be made to Cerro de Muerte on 80-6m from April 2-7.

**Aruba, P49MR:** should be active on 6, 12, and 17m through April 2007.

**Montserrat, VP2M:** Graham, M0AEP/VP2MDD, indicates that his plans to activate Montserrat in June/July have taken a setback. Following recent heavy volcanic activity with pyroclastic flows the authorities have extended the exclusion zone as a precautionary measure and this now includes his QTH.

**St. Vincent, J8:** Jimmy, W6JKV, plans operation from the island of Bequia June 28-July 11.

**Colombia, HK1DX:** Maximo, EA1DDO plans a three month period of operation (March or later) in his spare time all the way from 160m through 70cm.

**Swains Island, N8S:** An international team of twelve experienced operators lead by Hrane Milosevic, YT1AD, and co-lead by David Collingham, K3LP, plan a multi-station operation including 6m between April 3-16. They will take a 24 hour boat ride from American Samoa and set up three camps, each of which will have 3 ICOM radios, ACOM amplifiers, and required antennas.

**Tokelau Is., ZK3A:** The Swain's Island team also plans 160-2m activity between April 16-19 from Tokelau Is. and Samoa, 5W5AA: between April 20-24.

**Fiji, 3D2:** A team from the Ukraine plans to operate 160-6m, first as 3D2AP, 3D2TZ, and 3D2UY from Taveuni Is from April 27 to May 3, and then as 3D2RI from Yanuca Is from May 3 to 7. Suggested six meter frequencies are 50.100 for CW and 50.110 for SSB. <http://www.3d2.dxr.com.ua>

**New Caledonia, FK/FO5RK:** Antoine (3D2AG) plans to be active through March.

**Marshall Islands, V73NS:** will be active on 160-6m from Roi-Namur for two years starting January 5. He is answering QSLs for contacts made 2003-5. [www.qsl.net/v73ns](http://www.qsl.net/v73ns)

# February 2007 Beacon List

## Credits to G3USF

Freq	Call	Town	Loc	Pwr
50000	GB3BUX	Nr Buxton	IO93BF	25
50000	9A1CAL	Cavovec	JN86EL	2
50000.1	IZ1SPI	Monte Verrugoli	JN44	
50000.9	PJ2BVU	Dutch Antilles		QRP
50001.0	VE1SMU	Nr Halifax NS	FN84	25
50001.3	IW3FZQ	Monselice PD	JN55VF	8
50002.5	7Q7SIX		KF75	5
50003	VO2FUN		FO62	3
50003	PY2WFG			5
50003	IQ6VP		JN62QI	
50004.0	IOJX	Rome	JN61HV	10
50005	ZS2SIX	Port Elizabeth	KF25	25
50005	9M4SIX	Penang Island	OJ05DJ	50
50006	PY0FF	Fernando Noranha	HI36	30
50006	A71A	Doha	LL55SH	110
50006.5	I24EFV			
50007	VA2ZFN	Mt Kanasuta QC	FN08HE	4
50007	HG1BVB		JN87FI	
50007	ZD7VC	St Helena	IH74	45
50007.8	DUIEV	Metro-Manila	PK04MP	10
50008	XE2HNB	La Paz Baja Cal.	DL44	10
50008.0	K0GUV	Park Rapids MN	EN26	8
50008	I5MXH	Pieve A Nievole	JN53JU	10
50008	LU1DMA	Buenos Aires	GF05PH	1
50009.5	PY2SFY	Pindamonhangaba	GG77GA	4
50010.8	SV9SIX	Iraklio	KM25NH	30
50010	JA2IGY	Mie	PM84JK	10
50010	PY1SIX		GG87	10
50011	TG9SO		EK44	45
50012	OX3SIX	Kulesuk	HP15EO	100
50012	HP1DCP	Cerro Jefe	FJ09HD	
50013	CU3URA	Terceira I.	HM68	5
50013	LZ1JH	Stara Zagora	KN22TK	1
50014	V73SIX	Roi Namur I.	RJ39RJ	45
50014.5	9M6SMC	Keningau	OJ85AX	2
50015	9Y4AT	Trinidad	FK90ER	25
50015	SV5SIX	Rhodes		0.3
50016	GB3BAA	Nr Tring	IO91PS	10
50017	JA6YBR	Miyazaki	PM51RT	50
50018	VE4ARM	Austin MB	EN09MW	50
50018	PR8ZIX	Imperatriz MA	GI64GL	45
50019	I2LEPM	50k SE Turin	JN34WR	15
50020	IW8RSB	Simeri Chirichiz		
50020.7	IK5ZUL		JN52	
50020.7	LU8MB			
50021	9Q1D	Kinshasa	JI75PQ	10
50021	ER3SIX		KN47JG	10
50021	OZ7IGY	Toelloese	JO55WM	30
50021.1	UN1SIX			
50022	S55ZRS		JN76MC	8
50022	HG8BVB		KN06OQ	5
50023	LX0SIX	Bourscheid	JN39AV	5
50023	SR5SIX	Skubianka	KO02LL	2
50023	XE1KK	Mt Popocatepetl	EK09QC	20
50023.0	JA1ZYK	Chiba	QM05	10
50023.5	ZP5AA	Asuncion	GG14	
50024.9	VE4SPT	Gillam MB	EO26PI	100
50025	6Y5RC	Kingston		15
50025	9H1SIX	Attard, Malta	JM75FV	7
50025	YV4AB	Valencia	FK60AD	15
50025.4	OH1SIX	Ikaalinen	KP11QU	40
50026	SR9FHA	Krakow Choragwica	KN09BW	4
50026	VP9GE		FM72	10
50026.2	IQ4FA	Ferrara	JN54TU	5
50027	CN8MC	Nr Rabat	IM63NX	20
50027	JE7YNQ	Fukushima	QM07	50
50027.8	SR6SIX	Staszek	JO81HH	7
50028	5T5DUB	Nouakshott	IK28AC	15
50028	XE2ED	Colonia Guerrero	DM10	15
50028	SR3VHC			
50030	IS0GRB	Cagliari	JM49OF	1
50030	9A0BHH	Moslavacka gora	JN85JO	2
50030	VY1DX	Whitehorse YU	CP20	20
50031	HG7BVA		JN97QK	
50031.0	ZD8VHF	Ascension I.	II22TB	50
50031.5	CT0SIX	Tavarade	IN50NE	
50032	JR0YEE	Niigata	PM97	2
50033	SR3FHB		JO91CQ	5

Freq	Call	Town	Loc	Pwr
50033	VE2RCS	Lachute QC	FN25	
50033	VE7FG	Prince George BC	CO83	50
50033	OH5RAC	Kuusankoski	KP30HV	20
50034	YU1EO	Beograd	KN04ML	1
50035	HC8GR	Galapagos Is.	EI59	30
50035	CQ3SIX	Madeira I.	IM12IP	10
50035	OY6BEC	Faroe Is.	IP62MB	
50036	VE4VHF	Headingly MB	EN19	35
50036	OA4B	Lima	FH17	13
50036	LW2ETU	Buenos Aires	GF05TH	1
50036.6	7J6CCU	Okinawa		
50036.6	CT1ART	Sierra do Cavalho	IM67AH	30
50037	JR6YAG		PL36	
50037.5	ES0SIX	Hiiuma Island	KO18CW	15
50038	C21SIX	Menen	RI39LL	25
50038	LU5EGY	Buenos Aires	GF05	15
50038	LU1DMA	S. Antonio de Padua BA	GF05	
50039	VO1ZA	St Johns NFD	GN37	10
50039	FY7THF	Kouru?	GJ35	10
50040	VE2YKT	Rapide-Blanc QC	FN37LS	0.5
50040	ZL3SIX	Christchurch	RE66	65
50040	SV1SIX	Nr Athens	KM17UX	25
50040	C6AFP	Abaco	FL16	30
50041	VE6EMU	Camrose AB	DO33	35
50042.5	GB3MCB	St Austell	IO70OJ	40
50043	VE6ARC	Grand Prairie AB	DO05	25
50044	ZS6TWB	Pietersburg	KG46RC	8
50045	OX3VHF	Qaqortoq	GP60QQ	20
50045	SR2FHM		JO94II	
50045	LZ2CM	Montana	KN13NE	0.5
50045.6	JW5SIX	Hopen Island	KQ26MM	10
50046.5	VK8RAS	Alice Springs	PG66	15
50047	JW7SIX	Kappe Linne	JQ68TB	10
50047.2	4N1ZNI		KN03WH	1
50048.2	VE8BY	Iqaluit NU	FP53RR	35
50048.5	TR0A	Libreville	JJ40	15
50048.7	JW9SIX	Bear Island	JQ94LM	15
50049.4	LZ2CC	Slatina Okr Loveshki	KN22GS	5
50049.6	LZ1SJ		KN32DR	2
50050	ZZ3SIX	Porto Alegre RS	GF49JW	10
50051	LA7SIX	Bardu	JP99EC	30
50051	AL7QY	Nome AK	AP74GM	45
50051	YO9FTR		KN25XG	3
50052	SK2CP	Kiruna/Estrange	KP07MH	10
50052	EI0SIX	Hill of Allen	IO63NF	25
50053	XE3RCM		EL50	
50053.5	PI7SIX	Nr Utrecht	JO22NC	
50054	OZ6VHF	Ribe	JO57EI	25
50054.4	VE2YAT	St Honore QC	FO40	
50055	EA3SIX	Barcelona	JN01VO	50
50055	V44KAI	St Kitts/Nevis	FK87QH	2
50056	VA7SIX	Coquitlam BC	CN89	10
50056	I8EMG	Cozzo Cervello	JM89BJ	
50057	IT9X	Messina	JM78RE	10
50057	VK7RAE	Don Hill	QE38	150
50057	TF3SIX	Reykjavik	HP94BC	12
50057.5	VK4RGG	Nerang	QG61	6
50058	WB4LHD	Shelby TN		
50058	HB9SIX	Nr St Gall	JN47QF	2
50058	IQ4AD	Parma	JN54DT	8
50058	OE3XLB		JN87AT	10
50059	HG5BVC		JN97PL	1
50059.5	VE3UBL	Brougham	FN03	10
50059.5	K4TQR	Birmingham AL	EM63OM	4
50059.7	W4CBX	Bristol TN	EM86	
50060.0	KD4NMI	Knightdale NC	FM05RT	100
50060.0	GB3RMK	Nr Inverness	IO77UO	40
50060.8	XE2OR	Nava Coahuila	DL98OK	35
50060.0	WB5LLI	Kenner LA	EM40	20
50060	LU4HH	Cordoba	FF78OP	1
50060.0	WB0RMO	Fairbury NE	EN10	25
50060	K5AB	Goldthwaite TX	EM01	50
50061	K9MU	Chippewa Falls WI	EN44	25
50061	AE3J	Aston Township PA	FM29GU	5
50061	W3HH	Nr Ocala FL	EL89	3
50061.7	NH6P	Pahoa HI	BK29	70
50062	W7KNT	Strevelsville MT	DN36	
50062	K8JA	Sterling Hts MI	EN82JP	2
50062	KB6BKN	Novato CA	CM88	
50063	W9JN	Stevens Point WI	EN54DN	1,10

Freq	Call	Town	Loc	Pwr	Freq	Call	Town	Loc	Pwr
50063	KE4SIX	Augusta GA	EM83	5	50078.2	TI2NA	San Jose	EJ79	50 p
50063	LY0SIX	Vilnius	KO24PS	7	50078.1	WD8OST	Goetville MI	EN76	10
50063	KU7V	Brigham City UT	DN31XM	5	50079	KK7CQ	Phoenix AZ	DM33	10
50063	KF4ODI	Newbern TN	EM56	10	50079	JX7SIX	Jan Mayen	IQ50RX	10
50063.3	NL7Z	Wasilla AK	BP51	25	50079	W4CHA	Tampa FL	EL88	
50064.0	W3VD	Laurel MD	FM19NE	7	50079.0	W3CCX	Philadelphia PA	FM29JW	4
50064	GB3LER	Lerwick	IP90JD	30	50079.45	W8IF	Nr Selma OH	EM89CR	100
50064	K1MS	Westford MA	FN42GM	15	50080	K0UO	Kiowa KS	EM07	10
50064.2	KH6HI	Ewa HI	BL01	50	50080	ZS1SIX	Cape Town	JN96FB	8-10
50065	KS5V	San Antonio TX	EL09SS	5	50080	FK8SIX	Noumea	RG37FR	15
50065	KL7/KGOVL	Circle AK	BP75XW	100	50080.0	UU5SIX	Mtns Nr Yalta	KN74AL	10
50065	GB3IOJ	Jersey	IN89WE	10	50080.0	4X4SIX	Jerusalem	KM71NU	5
50065	LU2MSA		FF57AC		50080	IT9ESW			
50065.0	W0IJR	Aurora CO	DM79	20 ++	50080	VE3RCN	Kingston ON	FN14TH	3-50
50065.0	KA0CDN	Aurora CO	DM79	20 ++	50080.9	AC7XP	ParadiseValleyAZ	DM43	3
50065.5	W0MTK	Fruita CO	DM59	4	50081	CS1RLA			
50066	W5GPM	Bartlesville OK	EM26		50082	UT7UV/A		KO40VK	10
50066.0	VK6RPH	Walliston WA	OF88	10	50082.5	LU8DCH	San Luis	FF66UQ	1.5
50066.0	WA1OJB	Bowdoinham ME	FN54	10	50083	DF0ANN	Moritzberg Hill	JN59PL	2
50066.2	W5SIX	Horse Mountain	DM54WA	1	50083	DG0HGW	Greifswald	JO64	
50066.7	KQ4E	Morristown TN	EM86	10	50083	DB0DUB			
50066.9	K4HRS	Merritt I. FL	EL98QA		50084.0	UT5G	Petri UKR	KN66LS	10
50067V	P43JB		FK42		50086	LU7YS	S.Martin de los Andes, Patagonia	FF49IU	5
50067	EA4CRP		IM68MU		50087	VK4RTL	Townsville	QH30JQ	10
50067	WZ8D	Loveland OH	EM89BI	100	50283	VK3RMH	25k NE Melbourne	QF22OH	10
50067	OH9SIX	Pirttikoski	KP36OI	35	50288	VK2RHV	Mt Sugarloaf NSW	QF57SC	10
50067	N7DB	Boring OR	CN85RM	5	50289	VK2RSY	Nr Sydney NSW004	QF56MH	25
50067.5	N3LL	Bridgeville PA	EN90	5	50293	VK3RMV	5k N Hamilton	QF02WH	15
50067.5	N8PUM	Felch MI	EN65BX	10	50297	VK7RST	Mt Nelson Hobart	QE37	15
50067.7	K0EC	Vail Mtn CO	DM69	45	50300	F5TND		IN96OL	10
50068	N6NB		DM05SB		50304	VK6RSX	Dampier WA	OG89	50
50068.1	W7RV		DM35	2	50306	VK6RBU	Bunbury WA	OF76	20
50068.5	K2ZD	West Orange NJ	FN20US	20	50309	F8KOT			
50068.9	K6FV	Woodside CA	CM87UL	100	50310	VK8VF	Darwin NT	PH57	100
50069	XE3ARV		EK59		50315	VK5RBV	Barossa Valley	PF95MK	12
50069	K4IDC	Crossville TN	EM76MA	0.35	50315.0	FX4SIX	Neuville	JN06CQ	25
50069	YO4KRB		KN44HE	2.5	50320	F8BHU	Nevers	JN17NA	4
50069	W9VW	Indianapolis IN	EM69WT	8	50321	ZS5SIX	Hilton	KG50	11
50069	W8GTX	StClairShores MI	EN82	3	50386	F1GTU	Perigueux	JN05IF	5
50069	N1NTE	Holland MA	FN42	5	50480	JH8ZND	Chitose	QN02UW	10
50069.5	N0UD	Nr Halliday ND	DN87	50	50490	JG1ZGW	Tokyo	PM95VP	10
50070	EA3VHF		JN11MV		50499.5	5B4CY	Zygi	KM64PT	20
50070	W2RTB	Rochester NY	FN13		50520.3	SZ2DF	Heraclion Crete (usually) or Hania	KM25	1kw
50070	WA7X	Fairview UT	DM49HO	100	52275	ZL2MHF	Nr Wellington	RE78NS	10
50070	WA7ACO	Richland WA	DN06		52346.5	VK4ABP	Longreach	QG26	10
50070	W4CLM	Stanley NC	EM95		52438	VK3FGN	Mildura VIC		
50070	KG6JAI	Burbank CA	DM04		52450	VK5VF	Adelaide Mt Lofty	PF95	8
50070.1	K4KWK	Chattanooga TN	EM75	1	52490	ZL2SIX	Blenheim	RE68	
50070.6	K0ETC	Joplin MO	EM27	10					
50071	LU1WDY	Trelew Chubut	FE76IS	5					
50071	W5HN	Allen TX	EM13SJ	0.5					
50071	W3DOG	Ocean City MD	FM28EI	45					
50071	KD4WDG	Wesley Chapel FL	EL88	10					
50071	W9AFB	Champaign IL	EN50	8					
50073	NN7K	Sun Valley NV	DM09AV						
50073	WA6LIE	Salinas CA	CM96EQ	5/40					
50073	K0KP	Duluth MN	EN36WT	100					
50074	PY8ELO		GI25AR	10					
50074	KD4HLG	Conyers GA	EM73	3/30					
50074	W5RP	San Angelo TX	DM91						
50074	N7LT	Bozeman MT	DN45	3					
50074	K8PLF	Maumee OH	EN81						
50074.8	EH1DVY	Soria	IN81	10					
50075	EA7A	Malaga	IM76SR	25					
50075	VR2SIX	Hong Kong	OL72						
50075	KA7BGR	Central Point OR	CN82	40					
50075	YO3JW		KN34BJ	10					
50075	WP4MZA								
50075.0	KL7GLK/3	Bay Ridge MD	FM18SW	4					
50075	VE7DAY								
50075	NL7XM	Easton PA	FN20IP	3					
50075	KB3MZY	Acme PA	FN00	10					
50075	K6WL	Nr San Francisco	CM97	40					
50075.3	LW2ETU	Avellaneda BA	GF05TI	1					
50075.8	OH5SIX		KP30JU						
50076	WA8LXJ	West Union OH	EM88FT						
50076	WR9L	Bourbonnais IL	EN61BD	10					
50077	K4AHO	Zellwood FL	EL98FR	7.5					
50077.6	N0LL	Smith Center KS	EM09OW	14					
50078	NM7D	Saint George UT	DM37	15					
50078	AC3A	Leawood KS	EM28QV	10					
50078.0	OD5SIX		KM74	8					

# February 2007 DX Reports

The following reports of 50 MHz DX propagation are courtesy of JA1VOK, K6QXY, G4UPS, and post-ings on the Internet. Apologies to any sources I may have inadvertently neglected.

Listings obtained from the OH2AQ reflector include distances in kilometers. These are determined prefer-entially from the grids in the post, and otherwise from one or both of the prefix- es of the calls. Note that the latter re- sults in VERY rough approximations to the distances, especially for large coun- tries and call areas.

The first entry is *mmddhhii*, where *mm* is the month, *dd* is the day of the month, *hh* is the hour UTC, and *ii* is the minutes after the hour. The year is understood to be 2007. Symbols just before the call of the reporting station include: V=Video Carrier, I=Inband video sidebands, F=FM audio, B=bea- con, C=CW, D=Telemetry Data, J=Digital, typically JT6M or JT65A for EME, R=RTTY, S=SSB, W=mode not mentioned (or both CW & SSB), H=heard only. BSc = backscatter.

## Reports of Africa

### CHAGOS ARCHIPELAGO

02171230 VQ9JK JT65A EME 11669 .050 W1JJ

### DJIBOUTI

02101044 J20MM CW 4776 50.110 RA6YDX  
02101046 J20RR CW 4027 50.110 IH9GPI  
02101048 J20RR 5085 50.110 IZ7AUG  
02101050 J20RR CW 3946 50.111 IT9FXV

## Reports of Asia

### HONG KONG

02140930 VR2SIX 569>DU7 1735 50.075 B PA0HIP/

### JAPAN

02031919 JR6EXN 22 EME 9264 50.031 J PE1BTX  
02250306 J76CCU 55 50.037 B PY5HOT

### TAIWAN

02090953 BY-TV STRONG 2414 51.250 F JA8CAR  
02092325 BY-TV 55 2414 51.250 F JA8CAR

## Reports of Europe

### ALAND IS.

02081821 OH0JFP 658 50.190 W SM0EPO  
02082000 OH0JFP 559 658 50.190 SM1TDE  
02082001 OH0JFP 559 KP00>JN65 1748 S57RR

### ALBANIA

02102132 ZA/UT7DW JT6M ALEX 979 .225 J SP9HWY

### AUSTRIA

02050818 OE5MPL JN78CJ>IO71LP 1417 GW6TEO  
02251256 OE2UKL 624 50.102 DL5MAE

### BELGIUM

02071549 ON3VHF JT6M LAURENT 1922 J G0GMS  
02211743 ON4IQ JT6M TR 1947 50.230 G4PCI

### BOSNIA-HERZEGOVINA

02251335 T92T CQ MMC 368 50.102 HA8AR

### CROATIA

02250915 9A4M MMC 582 50.157 OM5KM  
02250926 9A4V MMC 539 50.090 HA5PT  
02250933 9A4V MMC 582 50.090 OM5KM  
02250955 9A4M MMC 539 50.156 HA5PT  
02251004 9A4M 559 JN86>JN65 283 .155 9A5CW  
02251020 9A2SB CQ MMC 539 50.095 HA5PT  
02251020 9A5CW JN65VG MMC 219 50.085 9A4M  
02251039 9A4V 671 50.091 14LCK

02251040 9A4V CQ 822 50.091 F6FHP  
02251058 9A4M CQ MMC 539 50.109 HA5PT  
02251104 9A4V >JO21 1162 50.091 PA3GDY  
02251108 9A5CW LOUD 671 50.084 I4IKW  
02251129 9A4M 671 50.109 I4IKW  
02251158 9A4M 671 50.108 W I2KBD  
02251200 9A5CW 1149 50.085 DF0BV  
02251202 9A5CW CQ 1149 50.085 DL5MAE  
02251206 9A5CW JN65 467 50.084 I4LCK  
02251211 9A1CAL 671 50.097 IK4DCT  
02251211 9A4M 671 50.109 IK4DCT  
02251211 9A5CW 671 50.084 IK4DCT  
02251212 9A4M 579 1149 50.110 DL5MAE  
02251243 9A5CW JN65VG>JN85EG 202 085 9A4M  
02251258 9A1CAL UFB SIGS 1149 50.098 DL5MAE  
02251359 9A4M 1565 50.109 W G0GMS  
02251459 9A4M CQ TEST 1721 50.109 GW6TYO  
02251544 9A4M WEAK>JO80IK 782 50.109 SP6MLK  
02251544 9A5ST 671 50.100 IK4DCT  
02251614 9A2SB CQ MMC 577 50.093 HA8AR

### CZECH REPUBLIC

02251256 OK1DOL CQ 709 50.103 DL5MAE

### DENMARK

02040950 OZ7IGY 559 QSB JO62 358 021 DM2AUO  
02081826 OZ2LD JO54>JO32 388 50.194 PC7M  
02081839 OZ2LD IN/OUT>JN65 1120 .194 S57RR  
02081847 OZ8LS 559 BURST 1146 50.105 H IW1AZJ  
02081914 OZ6ABA JO57DJ>IO91AL 1026 G4PCI  
02081920 OZ1MFP JT6M MS 964 50.230 G4PCI  
02081932 OZ1DJJ JO65HP>IO91AL 1065 G4PCI  
02082028 OZ2LD 529/529 222 50.155 C DG1BHA  
02082108 OZ1MFP 2038 50.230 J EA2BCJ  
02082234 OZ6OM CQ JT6M 555 50.230 LA4ANA  
02091611 OZ6ABA 26 1231 50.230 H HB9QQ  
02111609 OZ6ABA JO57DJ>IO91AL 1026 G4PCI  
02142011 OZ3ZK JO54>JO32 388 50.234 PC7M  
02152245 OZ1DJJ JT6M 359 50.230 J LA8NK  
02160829 OZ1DJJ CQ JT6M 1086 50.230 G4MQL  
02161011 OZ1DJJ JO65HP>JO48KM 391 LA8NK  
02162252 OZ1DJJ CQ JT6M 555 50.230 LA4ANA  
02180802 OZ6ABA JO57DJ>JO48KM 150 LA8NK  
02180843 OZ6ABA JT6M 1341 50.230 J IK1HXN  
02180905 OZ6ABA JO57DJ>IO91AL 1026 G4PCI  
02200239 OZ6ABA JO57DJ>FN42FE 5726 K1SG  
02251659 OZ6ABA JO57DJ>IO91AL 1026 G4PCI  
02251659 OZ6ABA JO57DJ>JN98VC 1212 HA6NN  
02262035 OZ5AGQ JT6M 792 50.230 SP9HWY  
02271858 OZ6ABA JO57DJ>IO91AL 1026 G4PCI

### ENGLAND

02011145 G7CNF 27 JT6M 248 50.248 GW6TEO  
02011246 G8VYK 248 50.225 GW6TEO  
02020911 G7CNF JT6M 1172 50.223 J LA8NK  
02020917 G7CNF JT6M 265 50.223 GU8FBO  
02020934 G7CNF JT6M JN45OA 50.223 J I2WSG  
02020943 G4DEZ JO3AE>JO48KM 808 230 LA8NK  
02021735 G7CNF FEW BURSTS 50.223 J EA5EF  
02030809 G1OAR IO82SQ>IO71LP 210 230 GW6TEO  
02030941 G7CNF NICE 927 50.117 I2KBD  
02040905 G0GMS LONG BURST 802 50.230 EB1EHO  
02040943 G0GMS IO82>IM87 1638 50.220 EA7HG  
02040943 G4IGO JT6M 1172 50.230 J LA8NK  
02041036 G0GMS CQ 1172 50.230 LA8NK  
02041403 G1OAR 35 >JN58SC 1112 .230 H DJ2GM  
02041859 G3JHM DON 596 50.130 W PA3GDY  
02050831 G7CNF JT6M 248 50.223 GW6TEO  
02060851 G7CNF JT6M 248 50.223 GW6TEO  
02061558 G7CNF JT6M 265 50.223 GU8FBO  
02081722 G8VYK CQ JT6M 265 50.225 GU8FBO  
02082019 G4DEZ CQ JT6M 1242 50.230 EA2BCJ  
02091513 G0CHE 27 JT6M 131 50.230 G4PCI  
02101002 G0GMS CQ 1172 50.230 LA8NK  
02101021 G0CHE JT6M KEV 1172 50.222 J LA8NK  
02101352 G4DEZ JT6M BRYN 1048 50.230 LA4ANA  
02101927 G1OAR IO82SQ>JO48KM 960 230 LA8NK  
02130759 G8VYK JT6M 802 50.230 J EB1EHO  
02140857 G7CNF JT6M 248 50.236 GW6TEO  
02152139 G4DEZ JT6M 1048 50.230 J LA4ANA  
02160844 G4MQL JT6M MS 1186 50.230 OZ1DJJ  
02161820 G4DEZ JT6M 876 50.230 SM0EPO  
02162328 G1OAR IO82SQ>JO65HP 1032 OZ1DJJ  
02162329 G1OAR IO82SQ>JO48KM 960 230 LA8NK  
02180722 G1OAR IO82SQ>JO48KM 960 230 LA8NK  
02190855 G4MQL JT6M 802 50.230 W EB1EHO  
02200910 G4DCJ DAVE 596 50.193 W PA2V  
02202009 G4MQL IO81>JO32 659 50.220 PC7M  
02232049 G4PCI IO91AL>JO48KM 1041 LA8NK  
02241141 G4PCI 57 IO91AL>JN53GI 1300 IW5DHN  
02242307 G1OAR JT6M 246 50.230 G4MQL  
02250815 G7CNF JT6M NIGE 1562 50.236 SP9HWY  
02251356 G0GMS 1565 50.089 9A5CW  
02270821 G4MQL CQ JT6M 248 50.230 GW6TEO  
02272128 MIDUD JT6M ROBIN 1562 .230 SP9HWY

### ESTONIA

02181602 ES2RJ 4EL 300W 50.203 W1JJ

### FAROE ISLANDS

02051923 OY6BEC 52A MM0AMW  
02132240 OY6BEC 55A AU 971 50.035 LA8NK  
02132305 OY6BEC 57A>JO44 1279 50.035 DJ8FR  
02141806 OY6BEC 55A 1347 50.035 OZ1DJJ  
02141943 OY6BEC 41A>JP93 1307 50.035 B SM3PG  
02280006 OY6BEC 52A 793 50.036 MM0AMW

### FINLAND

02020946 OH2LE CQ 933 50.230 LA8NK  
02032142 OH8VJ KP22UN>JO48KM 1020 LA8NK  
02111812 OH8HTJ JT6M 933 50.234 J LA8NK  
02141944 OH9SIX 53A>JP93 499 50.067 B SM3PG  
02162139 OH8MGK KP23PQ>JO65HP 1138 OZ1DJJ

02192029 OH8MGK KP23PQ>JO32GF 1674 PC7M  
02232112 OH8MGK KP23PQ>JO48KM 1047 LA8NK

### FRANCE

02180931 F6BEG JT6M MS 838 50.238 G4PCI

### GERMANY

02031257 DL8PM 257 50.235 SM0EPO  
02041027 DL8PM CQ JT6M 1649 50.230 EB1EHO  
02041151 DL8PM JT6M MS 904 50.230 G4PCI  
02170930 DL8PM HANS JT6M 1878 50.235 J EA2BCJ  
02171042 DL8PM 35 JT6M 904 50.230 G4PCI  
02210947 DFOANN 529 JN59>JN67 266 B DL3LFA  
02211357 DL8PM HANS 50.235 J G4MQL  
02251238 DL5MAE CQ MMC 1149 50.097 9A5CW  
02262012 DL8YHR 7575 50.100 KP4FRE  
02271836 DL5XJ JO55>JO54 111 50.150 W OZ8ZS

### GREECE

02161540 SV8CS STRONG 1391 50.490 IW1AZJ

### GUERNSEY

02030700 GU8FBO EME JT65>CM88 50.205 J K6QXY  
02031753 GU8FBO CQ JT6M 338 50.230 G4PCI  
02051126 GU8FBO CQ JT6M 747 50.230 EB1EHO

### HUNGARY

02100958 HA3UU CQ 945 50.230 DL5XJ  
02100959 HA3UU JT6M JANOS 1654 .230 G0GHE  
02110900 HA3UU JANOS 1654 50.230 J G0GMS  
02110904 HA3UU JN96JO>IO91AL 1599 G4PCI  
02110952 HA3UU JN96JO>IN73DM 1946 EB1EHO  
02111211 HA3UU JN96JO>JO48KM 1481 LA8NK  
02111312 HA3UU JN96JO>IO71LP 4 1952 GW6TEO  
02141952 HA3UU JN96JO>JO32GF 1082 PC7M  
02160904 HG1BVB JN86VK>JN78CJ 346 B OE5MPL  
02160924 HG1BVB 529 JN86VK>JO65HP 1084 OZ1DJJ  
02160944 HG1BVB MS IO82 1591 50.007 B G0GMS  
02161154 HG8BVB 1101 50.022 B IK2IWU  
02170941 HA8CE KN06EN>JO32GF 1179 PC7M  
02180828 HA3UU JT6M MS 1625 50.230 LA4ANA  
02180849 HA3UU JN96JO>IO91AL 1599 G4PCI  
02221044 HG1BVB 559 JN86VK>JN78CJ OE5MPL  
02241431 HA8R 7EL GU43 6626 50.102 IZ4GWE  
02251241 HA8AR CQ 1054 50.103 DL5MAE  
02251359 HA6NN JN98VC>JO32GF 1047 PC7M  
02251420 HA8NV KN06GU 572 50.092 9A4M

### ICELAND

02132308 TF3SIX 52A>IO75 1318 50.057 MM0AMW  
02281802 TF3SIX 539>IO75 1318 50.057 MM0AMW

### ISLE OF MANN

02011310 GD0TEP 42 50.230 GW6TEO  
02011311 GD0TEP CQ JT6M 1221 50.230 EB1EHO  
02071701 GD0TEP 36 JT6M 392 50.230 G4PCI

### ITALY

02030841 I2KBD JT6M ALBERTO 1048 230 SP9HWY  
02031955 IW5DHN 26 JN53GI>JO22XW 1117 PE1BTX  
02040832 IW2NOR JN45>IO71 1235 .215 GW6TEO  
02040933 IW2NOR JN45ON>IM77AG 1560 EB7COL  
02082049 IOJX 559 JN61HV>JO01GN 1411 B G4FUF  
02082057 IW0BET 55 JN61FS>IO90 1448 H G7RAU  
02141158 I4IKW 1116 50.230 GW6TEO  
02180858 IK2JUG JN45>IO81 1104 .225 G3W0RL  
02181107 I1IANT 1391 50.150 SV3FUP  
02191321 I24EFV 579>JN65>JN64GB TR 467 S58U  
02191809 I1IANT JN44KC 326 50.155 F1ICS  
02221817 IK5RLP GD SIG>JN65 348 .157 S57RR  
02221828 IK5ZUL 529>JN65>JN52 TR 467 B S57RR  
02241121 IW5DHN 53 JN53GI>IO91AL 1300 G4PCI  
02241424 IZ4GWE >JN64 661 50.102 HA8AR  
02241514 IK4DCX WEAK TR 714 50.102 HA8AR  
02242100 IW5DHN EME MATTEO 9021 .198 K7CW  
02251012 I4LCK JN54PD 370 50.104 9A4M  
02251026 IQ3WW JN55WJ 387 50.095 9A4M  
02251207 I4LCK 934 50.104 DL5MAE  
02251208 I4LCK CQ MMC 671 50.103 9A5CW  
02251229 IZ4GWE CQ MMC 671 50.096 9A5CW  
02251235 IZ3BJA JN65 900 50.092 DL5MAE  
02251237 IZ4GWE UFB SIGS 934 50.096 DL5MAE  
02251246 IW0FFK JN61FS 603 50.092 ON4TQ  
02251252 IQ3WW 934 50.099 DL5MAE  
02251300 IW0FFK JN65VG 530 50.092 9A5CW  
02251319 I4LCK VY LOUD 934 50.105 DL5MAE  
02251326 IW0FFK 934 50.093 DL5MAE  
02251338 I4LCK JN54PD 465 50.103 9A8A  
02251346 IQ3WW 599 JN55>JN86 425 098 9A8A  
02251352 IZ3TRK 599 JN65VO>JN86EH 214 9A8A  
02251357 IZ4GWE JN64BL 389 50.096 9A8A  
02251418 I3EVK CQ MMC 671 50.092 9A5CW  
02251419 I4LCK JN54>JN66 271 50.103 IW3RUA  
02251441 IZ3BJA CQ MMC 671 50.097 9A5CW  
02251447 IZ5EKV 389 50.083 H 9A5CW  
02251455 IK2JUG CQ JT6M>TNX QSO 927 G0CHE  
02251513 I4LCK CQ MMC JN54 809 .103 HA8AR  
02251520 IW0FFK 559 671 50.092 9A5CW

### JAN MAYEN

02141938 JX7SIX 559>JP93 1424 50.079 B SM3PG  
02141950 JX7SIX 599 AUE 1881 50.079 B OH6CT  
02281800 JX7SIX 539>IO75 1687 50.079 MM0AMW

### LATVIA

02091637 YL2GB CQ 1846 50.130 F5MV

### LUXEMBOURG

02161528 LX0SIX 529 JN39AV>JO43KM 447B DL2NO  
02251316 LX0SIX 523 50.024 B DF0BV

## NETHERLANDS

02041904 PA3GDY 51 JO21>IO91 422 130 G3JHM  
02091906 PC7M 1572 50.235 J EA2BCJ  
02171509 PA7TA JO33>JO32 144 50.233 PC7M  
02210952 PA7TA JT6M 596 50.233 G4MQL

## NORWAY

02020853 LA8NK JO48KM>IO71LP 1165 GW6TEO  
02030571 LA8NK JO48KM>IO91AL 1041 G4PCI  
02040941 LA8NK MS 1172 50.230 J G4IGO  
02081934 LA4LN JP50JA>IN73DM 2143 EB1EHO  
02092114 LA2PHA JT6M MS 1281 50.230 G4PCI  
02101920 LA8NK JO48KM>IO91AL 1041 G4PCI  
02141853 LA2PHA JT6M MS 1281 50.230 G4PCI  
02162033 LA2PHA JO38>JO32 697 50.230 PC7M  
02170854 LA5TFA JT6M MS 548 50.230 OZ1DJJ  
02232031 LA8NK JO48KM>IO91AL 1041 G4PCI

## POLAND

02040924 SP9HWY QUICK MS 1562 50.230 J G4IGO  
02041133 SP9HWY JO90NH>IO71LP 1690 GW6TEO  
02082022 SR3FHB 519 JO91CQ>JO80IK B SP6MLK  
02112046 SP9HWY JO90NH>JO48KM 1125 LA8NK  
02181043 SP7CDG CQ JT6M MS 1465 .227 G4PCI  
02221950 SP9HWY JO90NH>IO91AL 1478 G4PCI  
02242256 SP9HWY CQ JT6M 1241 50.230 LA4ANA  
02251338 SP9HWY JO90NH>JO32GF 899 PC7M

## PORTUGAL

02121841 CT21TR 6362 51.995 K8WZS

## SARDINIA

02251041 IS0GQX JM49OH>IN73DM 1326 EB1EHO

## SCOTLAND

02031730 GM3WOJ IO77WJ>JO48KM 775 LA8NK  
02051923 GB3LER 53A 629 50.064 MM0AMW  
02052005 GM3WOJ IO77WJ>JO32GF 890 PC7M  
02052254 GM4WJA IO75QH>JO65HP 1084 OZ1DJJ  
02061756 GM4ISM IO85AR>JO32GF 787 PC7M  
02082004 GM4WJA IO75QH>JO32GF 808 PC7M  
02100920 GM4WJA FB REFL 1271 50.236 HB9QQ  
02131716 GB3LER 55 AU 388 50.064 B GM3WOJ  
02132247 GB3LER 53A 598 50.064 LA8NK  
02141807 GB3LER 55A 963 50.064 B OZ1DJJ  
02162323 GM4WJA IO75QH>JO48KM 891 LA8NK  
02162328 GM4WJA IO75QH>JO65HP 1084 OZ1DJJ  
02172024 2M0BAE IO88>JO32 919 50.236 PC7M  
02172051 2M0BAE MS MARIE 1902 50.236 J SP9HWY  
02172230 GM8VJS IO75QH>JO90NH 1680 SP9HWY  
02190959 GM6VXB JT6M 925 50.230 G4MQL  
02191954 MM0AMW 18 7256 50.193 W7GJ  
02212257 GM4WJA IO75QH>FN42FE 4908 K1SG  
02271902 GB3LER 52A>IO75 629 50.064 MM0AMW  
02280006 GB3LER 55A>IO75 629 50.064 MM0AMW  
02281750 MM0DQP IO88KI>IO91AL 767 G4PCI

## SLOVENIA

02161046 S55ZRS JN76MC 105 50.022 B 9A8A  
02221816 S57RR 635 50.157 IK5RLP  
02251018 S57RR MMC 368 50.100 9A5ST  
02251053 S51DI JN76VL>JN97MK 268 089 HA5PT  
02251057 S51DI JN65VG>JN76VL 204 089 9A5CW  
02251101 S51DI JN76VL>JN97MK 268 089 HA5PT  
02251113 S57RR 779 50.099 I4IKW  
02251146 S57RR CQ MMC 368 50.099 9A4K  
02251148 S57RR 599 JN65UM>JN86UK 325 HA3HV  
02251204 S57RR 599 JN65UM 908 50.101 DL5MAE  
02251217 S51U 599 887 50.109 DL5MAE  
02251242 S51DI 851 50.095 DL5MAE  
02251303 S57RR 1053 50.100 ON4IQ  
02251303 S57RR MS>JO54 984 50.099 DL5XJ  
02251309 S51DI CQ MMC 398 50.094 HA8AR  
02251309 S57RR 559 JN47VL 557 50.100 OE9MVCV  
02251336 S57RR 529 1091 50.100 PE1CZG  
02251344 S57RR 1533 50.100 W G0GMS  
02251351 S57RR 599 JN65UM>JN86EH 224 9A8A  
02251417 S51DI 687 50.094 I4IKW  
02251421 S51DI 337 50.094 9A5CW

## SPAIN

02031215 EA2BCJ JT6M 1242 50.230 G4PCI  
02041111 EB7COL IM77AG>IO71LP 1599 GW6TEO  
02041128 EB1EHO IN73DM>IO91AL 928 G4PCI  
02041532 EA2BCJ JT6M MS 1242 50.230 G4PCI  
02091355 EA1GY 983 50.010 F5RG  
02091502 EC1DMY 1556 50.230 J G0GMS  
02091504 EC1DMY JT6M MS 1667 50.230 G4PCI  
02091931 EB1EHO IN73DM>IO91AL 928 G4PCI  
02110857 EA2BCJ IN91NP>IM76SR 624 EA7DUD  
02132047 EB1EHO IN73DM>JO32GF 1327 PC7M  
02150951 EB1EHO IN73DM>JO65HP 1876 OZ1DJJ  
02191001 EB1EHO CQ JT6M 802 50.230 G4MQL  
02250920 EA4LU IM68TV>IM76SR 293 220 EA7DUD  
02251018 EB1EHO IN73DM>JM49OH 1326 IS0GQX  
02260912 EB1EHO CQ JT6M 802 50.230 G4MQL  
02264142 EB1EHO CQ JT6M 802 50.230 G4MQL  
02261814 EB1EHO CQ JT6M 802 50.230 G4MQL  
02271418 EC1DMY 1691 50.230 GW6TEO

## SVALBARD

02141817 JW5SIX S9>JP53 1516 50.046 B LA3ANA  
02141819 JW7SIX S9 1516 50.048 B LA3ANA  
02141823 JW7SIX S99 Q68>KP30 2055 B OH5LK  
02141825 JW5SIX KQ26 1773 50.045 B OH5LK  
02141937 JW7SIX S49>JP93 1461 50.047 B SM3P2G  
02151647 JW7SIX S99 UAE 1778 50.048 B OH6CT  
02151659 JW5SIX S99 1778 50.046 B OH6CT  
02151719 JW5SIX KQ26>KP30 1773 .046 B OH5LK  
02151736 JW7SIX S99 2055 50.047 B OH5LK

## SWEDEN

02021434 SM7CMV JT6M MS 1082 50.230 G4PCI  
02040967 SM7CMV MS 1202 50.230 J G4IGO  
02052217 SM4ANQ JT6M MS 103 50.230 J OZ1DJJ  
02061611 SK0CT CQ 1202 50.230 G0GMS  
02062152 SM7CMV CQ JT6M 568 50.230 LA4ANA  
02062217 SM7CMV JT6M KEN 418 50.230 J LA8NK  
02081825 SM3BEI JP81NG>IO91AL 1590 G4PCI  
02081842 SM3BEI JP81NG>JO32GF 1191 PC7M  
02082019 SC30OVL JT6M 50.230 J LA8NK  
02082034 SC30OVL JT6M MS 50.230 G4PCI  
02082122 SC30OVL JT6M 50.230 SP9HWY  
02082157 SC30OVL 50.230 J EI2IP  
02082224 SM4ANQ CQ 418 50.230 LA8NK  
02091455 SM7CMV JT6M MS 1082 50.230 G4PCI  
02102012 SM6MVE JT6M 707 50.230 SP9HWY  
02122109 SM4ANQ 21 JT6M 50.225 IK1PAG  
02131107 SM4ANQ JT6M MS 1052 50.230 G1OAR  
02141437 SM7CMV JT6M MS 1082 50.230 G4PCI  
02170833 SM6NZV JT6M 707 50.230 SP9HWY  
02231419 SK0CT CQ JT6M MS 1082 .230 G4PCI  
02242052 SM4ANQ 418 50.230 LA8NK  
02242126 SM4ANQ ULF 50.230 LA8NK  
02242145 SM4ANQ CQ JT6M 568 50.230 LA4ANA  
02242146 SM4ANQ 1202 50.230 G4PTJ  
02271629 SK0CT CQ JT6M MS 1082 .230 G4PCI  
02272111 SK0CT CQ JT6M 568 50.230 LA4ANA

## SWITZERLAND

02050946 HB9MFD JT6M MS 1089 50.230 J OZ1DJJ  
02181003 HB9MFD PAUL 988 50.230 SP9HWY  
02181117 HB9SIX 529 JN47QF>JO50UF 374 DK2EA  
02221836 HB9SIX 529TR JN47QF 706 058 B DK2EA  
02241215 HB9SIX 539 IM76RP 1453 .058 B EA7AGX  
02281246 HB9MFD PAUL 50.230 J SP9HWY

## UKRAINE

02171030 UT7UV KO40>JO32 1564 50.237 PC7M  
02240728 UT7UV 559 MS 50.101 DL5XJ  
02240748 UT7UV SASHA 1842 50.101 W DL5XJ  
02251000 UT4U 871 50.102 Y03FOM  
02251531 UT4U PINGS 1519 50.102 S57RR

## WALES

02011412 GW6TEO JT6M 50.218 G4MQL  
02021740 GW6TEO IO71LP>JO32GF 795 PC7M  
02051730 GW6TEO IO71LP>IO91AL 213 G4PCI  
02100947 GW6TEO GORDON JT6M 1100 212 DL5XJ  
02141233 GW6TEO SHORT BURSTS 1116 I4IKW  
02181451 GW6TEO 18 248 50.230 G0GHE  
02260906 GW6TEO CQ JT6M 248 50.230 G4MQL

# Reports of North America

## ALASKA

02280642 AL7RT 55A BP64>CN88 2280 KE7V  
02280642 KL7NO 55A BP54XW>CN88 2349 KE7V

## BAHAMAS

02062309 C6AFP 539 1526 50.041 B N3DB  
02141612 C6AFP 579>FN13 1860 50.040 B W9RUK  
02141621 C6AFP 559 FN31 ENY 1761 040 B W2DX  
02141657 C6AFP 559 FL16HS>FYM18 1304 B W4XP  
02141706 C6AFP FL16HS>FN31 1685 .040 B WY1U  
02141820 C6AFP 53 1W 1526 50.040 B N3CR  
02161615 C6AFP CQ CW 1651 50.125 N8PR  
02171540 C6AFP 339 FL16 ABACO 50.041 B KE4WBO  
02171709 C6AFP 539 FL16HS>EM89 .040 B N8Z1  
02171733 C6AFP FL16HS>EM89 1508 .040 B W28D  
02241659 C6AFP FL16 544 50.040 B KE4WBO  
03010218 C6AFP FL16HS>EM89 1508 .040 B W28D

## CANADA, Quebec

02082233 VE2DC 52 FN35>EM89 1055 125 W28D

## CANADA, Ontario

02082206 VE3EN 55 FN24>EM89 862 .125 W28D

## CANADA, Alberta

02132351 VE6EMU DO33 AU 1334 50.041 B K7AD  
02280636 VE6EMU 52A DO33 1334 50.041 B KE7V

## CANADA, British Columbia

02060703 VE7DAY 57 JOHN 1360 50.125 KE7V  
02130512 VE7DAY 519 CO70>CN88 265 KE7V  
02130551 VE7DUB 449 CO88>CN88 1111 KE7V  
02190451 VE7DAY 54 CO70>CN88 265 125 KE7V  
02260612 VE7DUB 339 CO88>CN88 1111 KE7V  
02270627 VE7DAY 519 1360 50.146 KE7V  
02280639 VE7FG 57A CO83 1527 50.033 B KE7V

## CUBA

02050046 CO8LY FL20LA>EM63CQ 1973 N4DSS

## GUADELOUPE

02100145 FG5GP 59>GG53QW 4917 50.110 PP5XX

## GUATEMALA

02040000 TC9SO 1957 >EM60 >0257 .011 B N5BO/4  
02040008 TC9SO S7>NEW ORLEANS 50.010 B N5OMG  
02040026 TG9AFV SSB CQ 1957 50.110 N5OMG  
02040034 TG9AFV CW CQ 50.017 N5BO/4

## JAMAICA

02250308 6Y5RC 55 6029 50.025 B PY5HOT  
02280037 6Y5RC 559 6029 50.025 PY5HOT

## MEXICO, XE1

02060130 6H1ZVO CQ DX 50.120 XE1RCQ  
02060132 6H1AY 1363 50.125 K5WA  
02060134 6H1ZVO 1363 50.120 K5WA  
02060139 6H1TRP 1363 50.135 K5WA  
02060141 6H1TRP 59 DL90>EM10 1181 W5GAI  
02060144 6H1TRP 59 DL90>EM10 1181 XE1RCQ  
02060147 6H1AY 599 DK79>EM10 1463 W5GAI  
02060149 6H1TRP DL90>EM30 1370 .135 W5AKBH  
02060152 6H1ZVO DL90>EM30 1370 .120 W5AKBH  
02060157 6H1AO 59 DK89>EM10 1363 135 W5GAI  
02060159 6H1AO DK89>EM30 1582 50.135 W5AKBH  
02060211 XELMM EK09>EM30 1363 50.110 W5AKBH  
02060226 6H1AY DK79>EM30 1717 50.110 W5AKBH  
02060229 XELMEX 599 EL09 2583 50.115 K2CUB  
02060232 XELMEX EK08>EM30 1464 .115 W5AKBH  
02060236 6H1AO DK89>EM10 1363 50.135 NA4M  
02060239 6H1ZVO DL90>EM10 1181 .120 NA4M  
02060242 6H1GRR DL80>EM10 1263 .109 NA4M

## MEXICO, XE2

03010024 6I2MVS >EM15 50.110 H KX5RW

## MEXICO, XE3

02060219 XE3ARV CW>DM22 3019 50.110 XE2K  
02250305 XE3RCM 55 6893 50.053 B PY5HOT  
02250317 XE3RCM 519>FK68 2114 50.053 B WP3UX  
02280033 XE3RCM 579 6893 50.053 PY5HOT

## MONTERRAT

02020130 VP2MFF 3289 53.715 W8AC  
02041436 VP2MTC CQ 3202 50.125 NE1RD  
02041613 VP2MRD CQ & 1855 50.125 NE1RD

## PUERTO RICO

02012010 WP3UX >EL98 QSB 1806 50.125 H KG4NZR

## ST BARTHELEMY

02282247 FJ5DX 5796 50.110 LU4CN

## ST KITTS & NEVIS IS.

02100141 V44KAI 559>GG53QW 5086 .054 B PP5XX  
02140027 V44KAI 599>GG53QW 5086 .054 B PP5XX  
02250427 V44KAI 539>FK68 50.053 B WP3UX  
02270044 V44KAI 537>GG66VA 4958 .053 B PY2MTV  
02270154 V44KAI 511 FK87>GG66 4958 B PY2MTV  
02280200 V44KAI 559>GG53QW 5086 .054 B PP5XX  
03010025 V44KAI 559>GG66VA 4958 .053 B PY2MTV

## United States, W1

02082241 AA1YB FN54>EN40 1851 50.125 KC0TDJ  
02082250 AA1YB 59 FN54>EN32 1941 125 KC0HLN  
02101606 K1GUP FN54LS>EM89 1289 .125 W28D  
02141558 K1FPV FN42>EL86 50.135 G6JPD  
02141616 K1FPV FN42>EL89 1799 50.130 N4US  
02150018 WALT FN43>EL89 1885 50.125 N4US  
02150027 WALT 59 FN43>EM72 1727 .125 K14FCQ  
02150030 WALBY CW CQING 2896 50.126 N5BO/4  
02150039 W1OW FN42>EM60 1949 50.135 N5BO  
02150041 W1RA 519>FL 1785 50.070 B KE4WBO  
02171442 K1TOL FN44VC>EM60 2111 .099 N5BO  
02171612 K1BXC FN31>EM60 1750 50.125 N5BO  
02181507 W1JJ EM JT65A 6063 50.203 G5WQ  
02191949 W1JJ 18 EME JT65A 5961 .203 G4PCI  
02192041 K1SG 24 EME 3400 50.190 W7GJ  
02212202 K1SG 24 FN42FE>IO91AL 5186 G4PCI  
02251645 K1SG 55>EN52 1432 50.125 W9RM  
02251712 K1SG FN42FE>EM89 1008 .135 W28D

## United States, W2

02041554 W2ZFGK 59 FN21>EM60 1627 N5BO  
02070228 W2GFF EM60>EM10 957 50.099 K5AB  
02151913 W2SEI CQ 1436 50.125 N4US  
02171606 W2BTR 559 FN20>EM60 1551 N5BO  
03010151 W2GFF LOUD EM60 1708 50.125 W28D

## United States, W3

02012050 K32XL DAN 2625 50.125 W WP3UX  
02080050 W3UUM 59> EL29 2038 50.135 KE4WBO  
02101615 K33MOJ FN00>EM89 358 50.125 W28D  
02150021 K3EGE 559 FM29>EM60 1479 N5BO/4  
02150033 K3TKJ 59 FM28>EM72 50.125 K14FCQ  
02150038 K3TKJ AL 2319 50.125 N5BO/4  
02150041 W3CCX 519>FL 1168 50.079 B KE4WBO  
02150055 N3CR 559> FL73 1249 50.135 KE4WBO  
02171609 N3ALN FM19>EM60 1351 50.125 N5BO  
02200209 W3CMP FN10>EM89 522 50.130 W28D  
02241657 W3HH EL89>EL96 387 50.061 B KE4WBO  
02261350 N3LL CQ CW 1168 50.125 H KK4XO  
02282324 W3HH EL89>EM02 1559 50.061 B AE5B

## United States, W4

02011256 K24RR 44 QSB>FM16 763 .125 H W4RVZ  
02012010 K04ESV 1942 50.125 W WP3UX  
02012012 K14SDV 1942 50.125 W WP3UX  
02031325 W4WA 42 EM84>EM89 555 .145 W28D  
02041452 K24RR EM46FF>EM90 50.125 K0XXX  
02062309 K04ESV S9 1168 50.125 N3DB  
02062315 W4CHA S7 1168 50.080 B N3DB  
02070006 W4/W9DR 58 EL86>EM79 1457 W8IF  
02070209 W4/W9DR 459 EL86>EM89 1445 W28D  
02070210 W4/W9DR CW 1627 50.126 K5AB  
02080037 K4HRS FL 278 50.067 B KE4WBO  
02080039 W4CHA Q5 EL88 294 50.080 B KE4WBO  
02082309 W4/W9DR EL86>EM89 1445 .125 W28D  
02091502 W4XP FM18EW 221 50.099 K8GP  
02092157 W4/W9DR 559 EL86>EM79 1457 W8IF  
02101625 W44LLR EM85>EM89 444 50.125 W28D  
02141548 K24RR 59 1785 50.125 W1JJ

02141635 K24RR EM90>FN54 1899 50.145 K1GUP  
02141639 KG4RR EM90>FN30 1325 50.145 KC2H2W  
02141641 W4CHA EL88>FN31 1705 50.080 B WW2DX  
02141709 K4EB EM90>FN42 1603 50.125 W1OW  
02141718 KG4RR 3915 50.145 H W0GT  
02141727 KE4SI EM83>FN42 1448 .063 B KU2A  
02150029 K4YC EL89>FN42 1799 50.130 W1OW  
02150045 W4WBZ MIKE EL98>FN20 1441 N3CR  
02150051 W4KVV 59 EM80>FM19 1139 125 H AK3E  
02150054 AA4W 57 EL99FK>FM19 1193 H AK3E  
02171506 AA4W 55 EL99FK>FM19 1193 H AK3E  
02171724 KD4ESV EL87>EM89 1334 .125 W28D  
02171724 W4/N5BO EM60>EM89 1064 125 W28D  
02120009 K14KVS EM64>EM89 659 50.125 W28D  
02231425 W4CHA 549 TR EL88>EL96 297 B KE4WBO  
02232338 W4CHA 519 EL88>EL96 297 080 B KE4WBO  
02241657 W4CHA 519 EL88 294 50.080 B KE4WBO  
02251718 N4VWK 55 FM06>EM89 483 .135 W28D  
02251722 K24RR 59 EM90>EM89 1016 135 W28D  
02260057 NT4I 1168 50.124 W3SMD  
02282330 W4CHA EL88>EM60 1594 50.080 B AE5B  
02301009 K4VDL EM20>EM66 996 50.125 W5DN  
03010148 W4/N5BO EM60>EM89 1064 125 W28D  
03010212 K4AHO 59 EL98>EM89 1236 125 W28D  
03010215 W4CHA EL88>EM89 1222 50.080 B W28D  
03010227 K4EB EL99>EM89 1126 50.145 W28D

## United States, W5

02040106 K5AB 349 NOISE 1559 50.060 B XE3ARV  
02041445 K5YV EM49>EM73 385 50.125 C W4GCB  
02041933 N5AC FSK EM13>EM60 999 .260 J N5BO  
02060122 K5AB 559 QRN 1559 50.060 B XE3ARV  
02060135 W5FCR 57 1559 50.125 B XE3ARV  
02060157 K5AB >DK79 1363 50.060 B 6H1AY  
02060212 KD5HLB 58 1559 50.125 B XE3ARV  
02060233 K5AB 449>EK59 1582 50.060 B XE3ARV  
02070124 N5TIF EM12>EM60 973 50.125 H N5BO  
02070142 W5WVO DM65>EM60 1941 50.125 N5BO  
02070151 W5AOLT EM12>EM60 973 50.125 N5BO  
02080035 K5AB 559 1722 50.060 B KE4WBO  
02080055 W5RP 559 DM91 1906 50.074 B KE4WBO  
02090258 KE5FVP DM73>DM12 1123 .125 N6CW  
02090332 K5VHU EM15>DM12 1869 50.130 N6CW  
02090352 W5NRI EM22>DM34 1681 .125 N7CW  
02112315 W5NRI EM22>DM20 222 50.125 W5DN  
02140200 N5JEH 59 DM65RD>DN27 1542 W7GJ  
02160106 K5SW EM25>EM60 929 50.125 N5BO  
02160124 W5GPM EM26>EM60 996 50.066 B N5BO/4  
02201828 N5BLZ EME CQ JT65A 6101 198 G5WQ  
02202123 K5AB 449>EK59 1582 50.060 B XE3ARV  
02202232 K5AB 559>EK59 UP 1582 .060 B XE3ARV  
02202251 K5AB EM01>EM60 1211 50.060 B N5BO  
02250809 W5UWB EME JOHN W7GJ  
02282330 K5AB EM01>EM60 1211 50.060 B N5BO  
02282345 AE5B EM02>EM60 1218 50.140 N5BO  
02282357 W5QEP EM20>EM30 191 50.125 W5DN  
03010209 N5TYL 59 EL29>EM89 1560 125 W28D

## United States, W6

02141730 W06T 3915 50.145 H W4AMP

## United States, W7

02070222 W7LPC DM34>EM10 1562 50.125 K5AB  
02090330 K7NN 59 DM42>EM36 1705 .125 W5KI  
02090342 W7NB 59 DM42>EM36 1705 133 W5KI  
02090345 K7NN DM42>EM17 1389 50.125 N0JK  
02090409 K7NN DM42>EM17 1389 50.150 N0JK  
02150354 W7BX 559 DM05 20\* 656 .125 H KE7V  
02180433 W7BX 339/529 DN05>CN88 .126 KE7V  
02180436 K7WIA 529 CN87>DN05 378 125 W7BX  
02180436 KE7V 529 CN88>DN05 450 .125 W7BX  
02180742 K4TBGR 449>CN88 1104 50.126 H KE7V  
02191841 W7GJ EME DN27 8464 50.193 CT1FFU  
02191846 W7GJ 21 JT65A 5961 50.193 G4PCI  
02191852 W7GJ EME 50.193 ES2RJ

## United States, W8

02041509 K8MMM 579>EM70 1263 50.126 K4RX  
02082111 W28D EM89>FM28 699 50.067 B K3CB  
02082257 W8FTA EN82 991 50.125 W1JJ  
02101629 W28D 55 EM89>EL96 1457 .125 KE4WBO  
02101758 W8IF WEAK ES 1126 50.079 B KE4WBO  
02112312 W8IF 559 EM89>EM17 1236 079 B N0JK  
02150012 W8NFIJ EL98>FN42 1797 .140 W1OW  
02202327 W8IF EM79>EN62 373 50.125 KK9H  
02202345 W8FTA 52 EN52>EM79 473 125 W8IF  
02251736 KB8DBJ EN82>EM60 1340 .125 H N5BO  
02272127 W8IF EN80>EM89 111 50.079 N4DB  
02282336 W8NFIJ EL98EM>EM02 1719 125 AE5B  
03010148 W28D EM89>EM60 1019 50.126 N5BO  
03010212 W28D EM89BI>EN92JW 424 .125 VE3DXP

## United States, W9

02041552 W9DR EM46FF>EL86 50.125 K0XXX  
02051321 W9DR 559 EL86>EM79 1457 125 W8IF  
02082106 W9RL WEAK QSB 845 50.076 B K3CB  
02082211 KA9CFD EN40OM>FN42 1658 125 W1OW  
02082212 KA9CFD EN40OM>FN31 1493 125 W21V  
02112245 W9MDS 55 EN43>EM20 1487 125 W5DN  
02112306 W9JN 559 EN54>EM20 1642 063 B W5DN  
02112309 K9MU 559 EN44>EM20 1595 060 B W5DN  
02150051 W9JWK EN52>EM60 1345 50.125 N5BO/4  
02202330 K9CEG EN53>EM89 668 50.125 W28D  
02202345 K9IFR EM69 358 50.125 W8IF  
02202345 KK9H 53 EN62>EM79 373 .125 W8IF  
02202348 K9CEG 53 EN53>EM79 597 .125 W28D  
02210006 K9OIM EM56>EM89 622 50.125 W28D  
02210009 W9TFF EM66>EM89 483 50.125 W28D  
02220133 W9VW EN80>EM69 358 50.070 B N4DB  
02241339 W9DR EL86>EM60 569 50.131 N5BO  
02270133 W9DR 559 EL86>EM89 1445 125 W28D  
02281257 W9DR 55 EL86>EM79 1457 125 W8IF  
03010145 W9DR 559 EL86>EM89 1445 125 W28D  
03010224 W9DR EL86>EM89 1445 50.125 W28D

## United States, W0

02041554 K0XXX EM46FF>EM60 763 .125 N5BO  
02042118 W0IUR 519 DM79>CN88 1746 B KE7V  
02070106 K0UO EN08GG>EM60 2240 .080 B N5BO  
02082142 K0KP 559 2257 50.073 B W1JJ  
02082154 K0KP 539 QSB 1840 50.073 B N3DB  
02082233 K0VUY 53 BSC 30\* 856 50.125 W28D  
02082253 K0HFL EN32>FN42 1798 .125 W1OW  
02082255 K0CF EN32 1851 50.130 W1JJ  
02112312 K0KP 559 EN36>EM20 1787 072 B W5DN  
02112313 K0HFL EM17 581 50.125 N0JK  
02112355 K0CMEA DM79LU>EM63CQ 1678 N4DSS  
02150042 NOLL 559 EM09>EM89 1370 078 B W28D  
02160100 W0ROO EM29>EM60 1236 50.125 N5BO/4  
02160103 K0UO EN08GG>EM60 2240 .080 B N5BO  
02160103 W0RMO >EM60 1708 50.060 B N5BO/4  
02161757 K0VUY 52 EM48SI>EM79 488 W8IF  
02200136 K0VUY 59 EM48SI>EM89 657 W28D  
02202333 W0/W6OAL DM79>EM89 1882 125 W28D  
02202348 W0/W6OAL 53 DM79>EM79 1712 W8IF  
02202145 K0VUY EM48SI>EM89 657 .125 W28D  
02270310 K0HFL EN32>FM16 1522 .255 W4RVZ  
03010133 K0VUY 59 EM48SI>EM89 657 W28D  
03010206 W0LPD EM00>EM89 1763 50.125 W28D

## Reports of Oceania

### AUSTRALIA, General

02120601 VK/VID S9+ 46.240 V JG3LEB  
02280453 VK/VIDEO S7 8139 46.172 V JG3LEB

### Australia-Queensland-VK4

02080436 VK4/VIDEO S7 8139 46.172 JG3LEB  
02120601 VK4/VID S7 46.172 V JG3LEB

### NEW ZEALAND

02010459 ZL/VIDEO GOOD 8960 45.250 V JR2HCB  
02031851 ZL3NW 22 EME 18222 50.205 J PE1BTX  
02080435 ZL/VID 45.24 S7, 45.25/26 V JG3LEB  
02110541 ZL/VID S9+ 45.24/45.25 8960 V JG3LEB  
02180357 ZL/TV S1 QSB 8960 45.260 JR2HCB  
02192136 ZL3NW 21 EME 11695 50.190 W7GJ  
02200548 ZL/TV 45.24/25/26 8960 .001 JR2HCB

## Reports of South America

### ARGENTINA

02032116 LW3EX 57 GF05>GG66 1687 110 PY2MTV  
02032137 LU5EGY 599 1366 50.038 B PP5XX  
02032140 LU5EGY 599 GF05QI>GG66VA 1686 PY2MTV  
02032143 LU8EMH 59+ >GG53QW 1366 110 PP5XX  
02032219 LU8EMH 55/55 FF94>FG72 966 LU2NI  
02032235 LU2NI 52>GG53QW 1366 50.110 PP5XX  
02032301 LU4HP 59 FE49 1249 50.110 LU7YS  
02032302 LU2NI 59 TATO 50.110 LU7YS  
02032302 LU7YS 57/59 50.110 LU2NI  
02032304 LW2DY 53 FE49 1249 50.110 LU7YS  
02032308 LU2NI 1158 50.110 PP5AR  
02032309 LU6QI 58 FE49 1249 50.110 LU7YS  
02032321 LU7YS 50.110 LU6QI  
02032326 LW3EX CQ DX CW 1717 50.110 PY2DA  
02061118 LU5EGY 559>GG53QW 1366 .038 B PP5XX  
02072250 LW3EX 57>FE49 1249 50.110 LU7YS  
02150006 LW3EX DIFF COPY 5952 50.110 W WP3UX  
02150046 LU5FCI 5952 50.110 W WP3UX  
02182003 LU5EGY 579>GG53QW 1366 .038 B PP5XX  
02201942 LU5EGY 579>GG53QW 1366 .038 B PP5XX  
02202150 LU5EGY 559>GG65OT 1644 .038 B PY2REX  
02202218 LU8EMH 59 FF95>FK68 5926 WP4NIX  
02202219 LUIDA 59 GF05>FK68 5952 110 WP4NIX  
02202219 LUIDMA 59 GF05>FK68 5952 WP4NIX  
02202228 LU7YZ 5952 50.110 W WP3UX  
02202229 LUIDA 5952 50.110 W WP3UX  
02202233 LU8EMH 5952 50.110 W WP3UX  
02232020 LU5EGY 559>GG65OT 1644 .038 B PY2REX  
02241650 LU5EGY 539>GG65OT 1644 .038 B PY2REX  
02242152 LU5EGY 559>GG53QW 1366 .038 B PP5XX  
02242210 LU5EGY 559 GF05>GG66 1702 B PY2MTV

### BRAZIL

02032248 PY2DA 55/59 1717 50.110 LU2NI  
02032317 PY5SHOT GG46>FF66 1914 .115 LU6QI  
02100143 PR8ZX 55>GG53QW 273 50.110 PP5XX  
02100228 PT9IR 50.110 PR8ZX  
02110555 PP5NW BRUNO 4839 50.110 W YV5ESN  
02110156 PP5FM MATEUS 4839 50.110 W YV5ESN  
02110159 PP5FNN 4839 50.110 YV5DSL  
02120023 PY5SHOT 5571 50.110 WP4NIX  
02120029 PY5SHOT 5571 50.110 W WP3UX  
02132356 PP5XX PETER MARGARITA I 110 YV5ESN  
02140040 PY5NM 53 273 50.110 LU8MB  
02180049 PY2BS 5571 50.110 W WP3UX  
02202217 PY4TF, PU4HAS 1158 50.115 LU6QI  
02210204 PY2BS 5571 50.110 W WP3UX  
02271942 PY2 7803 50.110 C3UEQ  
03010015 PY1SV 5571 50.110 W WP3UX

### CHILE

02022219 CE/MUSIC VARIOUS DIGI, RPTR KE4WBO  
02032200 XQ6T 51>GG53QW 2337 50.110 PP5XX  
03010104 CE2/K4UMM JEREMY FF46 5451 FM5JC

### FERNANDO DE NORONHA

02132356 PYOFF 55 3011 50.110 H PP5XX

### PERU

03010104 OA4B 599>GG66VA 3482 50.036 B PY2MTV

## TRINIDAD & TOBAGO

02030117 9Y4AT 599>GG53QW 4279 .015 B PP5XX  
02100140 9Y4AT 599 4279 50.015 B PP5XX  
02120055 9Y4AT 559>GG53QW 4279 .015 B PP5XX  
02120232 9Z4BM 599>GG53QW 4279 50.110 PP5XX  
02132349 9Y4AT, 9Z4BM 599/59 4279 B PP5XX  
02140018 9Z4B 59 50.110 S LU8MB  
02150046 9Z4BM 59 >GG66VA 4156 .110 PY2MTV  
02190022 9Y4AT 559>GG53QW 4279 .015 B PP5XX  
02270041 9Y4AT 559 FK90>GG66 4075 B PY2MTV  
02270153 9Y4AT 559 FK90>GG66 4156 B PY2MTV  
02280052 9Y4AT 599 4523 50.015 B PY5HOT  
03010027 9Y4AT 539>GG66VA 4156 .015 B PY2MTV

## URUGUAY

02142005 CX4KM CQ DX 1009 50.079 PY2MTV  
02150011 CX4CR 5986 50.110 W WP3UX

## VENEZUELA

02100110 YV5ESN 55 CQ 4623 50.110 PP5XX  
02100142 YV4AB 559>GG53QW 4623 .025 B PP5XX  
02100144 YV5ESN 559>GG53QW CQ 4623 B PP5XX  
02132351 YV5ESN 59>GG53QW 4623 .110 PP5XX  
02280200 YV4AB 599>GG53QW 4623 .025 B PP5XX

## QSL Information

3D2AP: via UX0LL

3D2RI: via UR3HR bureau of Leonid

Babich, P.O. Box 55, Poltava, 36000,

UKRAINE

3D2TZ: via UR7HTZ

3D2UY: via UT5UY

3DA0PM, etc. (March 2007): via

EI7CC direct or via EI bureau

4A3IH: via IT9EJW bureau or

Alfio Bonanno, Via della Regione,

20-95028 Valverde (CT) ITALY

N8S: via YT1AD: Dr. Hrane Milosevic,

36206 Vitanovac, SERBIA

TI1DX: via TI8AA

## The Coming Solar Cycle 24

In case you missed Jim Kennedy's two-part presentation in December 2006 and January 2007's *The World Above 50 MHz* columns of QST, I highly recommend them to you.

Jim wrote of six forecasts of the dates of the peak of Cycle 24 and the maximum smoothed sunspot number. The peak dates varies from 2010 to 2012. The peak smoothed sunspot numbers varied from 65 to 181 including the extremities of the error bars.

He wrote the following words of wisdom (that impressed me): "There is good reason to believe that, like weather on Earth, the fine details of the flows in the Sun are basically chaotic processes. That means that, like weather, short-term predictions can be fairly accurate, but the longer the term of the prediction, the more it looks like random noise."

We shall see!

## W6JRA's Evaluation of 50 MHz Transceivers

follows on the two following pages.

Sam is a harsh critic of manufacturers of transceivers covering 50 MHz. Some of this criticism may be well-deserved; however I must admit to using one of his "000" rated ones.

All current and discontinued 50MHz transceivers are studied for serious CW/USB DX operation. The Recommended 6M Scale of 0 to 10 will be assigned to all 50MHz sets from 1963 to 2006. The Scale = 1 is barely acceptable, Scale = 0 is not recommended, Scale = 00 is rejected for 6M DX operation, Scale = 000 is very poor & not acceptable for any 6M operation, and Scale = 0000 is absolutely the worst. The 6M Scale = 3 is considered a good 50MHz transceiver. The most expensive YAESU FTDX9000D has serious design problems; and the FTDX9000D 6M Scale = 00(rejected) with assumed very low HF Scale. The new ICOM IC-7800 is almost as expensive, the preliminary 6M Scale = 6 (best ever), and the modified IC-7800 is approaching the ideal 50MHz transceiver. This no nonsense report is especially written for serious 50MHz CW/USB DXers.

In the 6/1/1999 EVALUATION, I had approached three Japanese and one U.S. manufacturers to design a state-of-the-art 50MHz transceiver with receiver(RX) & transmitter(TX) performance as main parameters, HF as secondary although the 28MHz transverter IF will be necessary, a Noise Blanker(NB) that really works on weather related power-line noise, type N antenna connector, less bells & whistles, and a set that will be appreciated from the very first day to 2-3 solar cycles. Managers and chief engineers all shook their heads in disbelief, said that there is no market for such a 6M set, and they all gave many excuses. Since manufacturers could not foresee the need, their indifference are repeated by mediocre sets shown below, nothing really significant will be designed for many years, and the state-of-the-art set(6M Scale = 10) will never be designed. Manufacturers are still unconcerned and will continue to produce mediocre sets, dealers will try to sell anything, most amateurs are not sophisticated buyers, and the radio community will not see the full potential of 50MHz. The 6/1/1999 comments are still applicable today.

<u>Manufacturer</u>	<u>Model</u>	<u>6M Scale</u>	<u>Remarks</u>
ALINCO	DX-70TH	0	Not recommended for serious 50MHz CW/USB operation.
COLLINS	62S-1	0	The 62S-1 VHF Converter is tube dated(1963), fair performance with COLLINS S-Line, additional 50 & 144MHz Preamps needed, only 6M set with type N antenna connector, and the 62S-1 is now a choice collector item.
DRAKE	TR-6	0	The TR-6 is tube dated, good CW & USB TX signal, CW & USB filters are too wide for crowded RX conditions, and the solid-state Noise Blanker 9NB is very good.
ICOM	IC-706	1-0	See 3/1996 & 1/1999 QST Product Review. IC-706/MKII/MKIIG are designed for HF/V-UHF mobile. Thus design compromised and not recommended for serious 6M work.
ICOM	IC-746	1	See 9/1998 QST Product Review.
	IC-746PRO	1-2	See 5/2002 QST Product Review. Digital IF filters.
ICOM	IC-756	1	See 5/1997 QST Product Review. Cascaded crystal filters.
	IC-756PROII	2	The IC-756PROII digital IF filters are welcomed over the crystal filters of IC-756.
		3 mod.	The modified IC-756PROII 6M Scale = 3. The modification consist of: By adjusting the receiver overall gain R210, the S-Meter sensitivity = -88.0dbm(8.90uv) for S9.0 from original -85.0dbm(12.6uv). Connection of external 50MHz RCA NB after the 50 MHz Preamp. 10-turn pot R33 for adjusting the 2L0 = 64.000,000MHz. Type N antenna connectors. The modification will require precision test equipment, special tools, and many hours. Details are available from the writer.
	IC-756PROIII	Ind.	See 3/2005 QST Product Review. The 6M Scale is indeterminate but expected to be 3.
ICOM	IC-7000	Ind.	See 5/2006 QST Product Review. The 6M Scale is indeterminate. The keys are not desired on the hand microphone. A compromised design and not recommended.
ICOM	IC-7800	6	See 8/2004 QST Product Review and the informative IC-7800 brochure. The new IC-7800 (3 Roofing Filters) 6M Scale = 6, and this shows that ICOM had finally designed an acceptable 50MHz transceiver. Especially noteworthy are: Low-noise Preamp and Mixer designed for 6M. Two independent receiver circuits. Adjustable Noise Blanker (NB) that works on weather related power-line noise. External RX-In & RX-Out connectors, but still using type M UHF antenna connectors. Digital IF filters for SSB & selection of CW BW from 1.2KHz to 100Hz. On 50.1000MHz CW, IF BW = 500Hz, the S-Meter S9.0 = -85.0dbm(12.6uv) with very good calibration below & above S9.
		7 mod.	The IC7800 is suitable for 50MHz modification: Since the internal 10MHz REF is not instrument stable, the BNC REF-In is connected to the AGILENT TECH 53132A/012/050 Frequency Counter with 12 digit 10MHz REF. Then the CW output frequency = 50.100,000,01--03MHz. The RX-In & RX-Out are connected to 50MHz RCA NB, and test during strong Santa Ana Winds show that S9+ power-line noise is lowered to S1-2. In heavy Marine Layer power-line noise, the S9+ is lowered to S0. During no power-line noise, the normal noise spectrum(35-70MHz) is S2-5. The Noise Reduction (NR) will lower the audio noise by -3 to -15db on the BALLANTINE True RMS Meter. The Minimum Discernible Signal(MDS) on 50.1000MHz CW = -140.0dbm @ BW = 500Hz, -141.0dbm @ BW = 350Hz, -143.0dbm @ BW = 250Hz, & -144.0dbm @ BW = 100Hz. This is indeed a low-noise CW receiver. Using the HP-8563E Spectrum Analyzer(CF = 50.100 MHz & Span = 10.0KHz), the TX drive 60W CW waveform is very clean at 0.0dbm CF with $\pm 1$ KHz off = -70dbm down. The 1.5msec rise time(2msec adjust) at 56W CW drive is amplified by the HENRY 3006A to 1500W output. Using the TEKTRONIX 400MHz scope, the USB side xmas-tree waveforms are very sharp at 1500W+ PEP into dummy load. This stock/modified IC-7800 is highly recommended for serious 50MHz DXing.
JAPAN RADIO CORP.	JST-245	0	See 9/1995 QST Product Review. The JST-245 is not recommended for 6M because the NB does not work for power-line noise, and the TX signal sounds treble processed.
KENWOOD	TS-690S	00	Rejected. KENWOOD took two steps backward in replacing the TS-680S(6M Scale = 0).

<u>Manufacturer</u>	<u>Model</u>	<u>6M-Scale</u>	<u>Remarks</u>
KENWOOD	TS-570(G)	1-0	See 5/1999 QST Product Review. The TS-570(G) is a mediocre 6M set.
KENWOOD	TS-2000	1	KENWOOD in Long Beach, CA demonstrated the TS-2000 as poor CW & USB 6M transmitter. The TS-2000 is barely acceptable new set for serious 6M work.
YAESU	FT-726R	000	Very poor RX & TX performance. On 6M, the FT-726R is known for its "Infamous YAESU TX Sound". Several are still used on 6M. Same remarks for FT-736R.
YAESU	FT-650	0	Mediocre set, and prone to YAESU TX Sound by operator errors.
YAESU	FT-920	1-0	See 10/1997 QST Product Review. Prone to YAESU TX Sound by operator errors.
YAESU	FT-847	00	See 8/1998 QST Product Review. In 50.1MHz CW operation, the FT-847 has very poor spurious emission(low as -36dbm from 0.0dbm center frequency) which is dependent upon 1KHz change of the VFO. This is attributed to the poor PLL circuit. The weird CW spurious is not noticeable on USB. The FT-847 is rejected for 6M CW operation. YAESU did not acknowledge the spurious report, but the FT-847 was quietly discontinued. The detailed FT-847 spurious report is available by legal size SASE.
YAESU	FT-897	0	The FT-897 used similar PLL circuit as FT-847, and the FT-897 is not recommended.
YAESU	FT-100	1-0	See 6/1999 QST Product Review. Similar remarks as IC-706/MKIIG & not recommended.
YAESU	FTV-1000	3 4 mod.	The FTV-1000 50MHz Transverter is designed to be used with the FT-1000MP-MKV. 28MHz IF. I had used the earlier FT-1000MP 28MHz IF for many years. The concept of the 50MHz transverter is good; however, YAESU engineers made serious error in allowing the heat generated by the power amplifier unit & its cooling blower to change the temperature of the 22 & 24MHz local oscillators. This $\pm 100$ Hz shift of the 22MHz LO is lowered to $\pm 10$ Hz by oven controlled LO. In the FT-1000MP, the CW rise time = 6 msec is changed to less than 2msec by removing large electrolytic to smaller mylar capacitors in the CW wave shaping circuit. In the FT-1000MP Menu 9-1, RX IF gain = 7.0 so that at 50.1000MHz CW, -87.0dbm(9.99uv) = S9.0. At the FTV-1000 28MHz IF out, a 0-20db step attenuator is connected before the external 28MHz RCA NB. At the FT-1000MP TRV out, a 0-20db step attenuator is used to the 28MHz FTV-1000 TRV input. Surplus LAMBDA LGS-6A-28VR power supply = 30.0Vdc and SORESEN SSD-12-15 = 13.8Vdc are used for the FTV-1000. At 50.1000MHz CW, 500/500Hz IF, the MDS = -140.0 dbm, and for 250/250Hz IF the MDS = -143.0dbm. This modification is recommended only to serious 50MHz amateur with precision instruments, tools, and time.
YAESU	FTDX9000D	00	See 8/2005 QST Product Review and the fancy FTDX9000D brochure. The new FTDX9000D is the most expensive HF/6M transceiver. After 28 pages of detailed LABS notes, the FTDX9000D 6M Scale = 00, Rejected. At the initial AC Power turn-on, there is a loud gear-grinding noise; and this noise is repeated at each Power on. The 14.2 MHz S-Meter Alignment is a "Mickey Mouse Method", and it is not acceptable for 50.1MHz because of erratic S-Meter calibration & stability. On VFO-A, the NB has 4.4db gain on 50.1, 28.1, 21.1, 14.1MHz(should be 0db, unity gain) and respectively 1.2db NB gain for VFO-B. Because of strange noise at the receiver noise floor, the 50.1000MHz CW MDS can not be measured. The whole receiver on 50.1MHz CW/USB is therefore not acceptable. After much delay & discussion with YAESU/VERTEX STANDARD managers and the dealer, YAESU finally accepted the return; however, YAESU USA will not acknowledge the serious design errors of YAESU Japan. The old YAESU FT-726R("Infamous YAESU TX Sound"), series of marginal YAESU 6M listed, and the new FTDX9000D("YAESU RX Sound") all show that YAESU 6M sets are questionable. Those that are in denial will say that the writer is too critical. Not so, NOT CRITICAL ENOUGH! In conclusion, the FTDX9000D is Rejected for 6M DX operation, any HF DXer should carefully consider these serious design errors, and the recall is recommended to YAESU/VERTEX STANDARD.
YAESU	FT-2000	Ind.	The new FT-2000 6M Scale is indeterminate. I beleived that several FT-1000MP MKV and FTDX9000D circuits have been re-packaged in the FT-2000. Based on poor performance of previous YAESU 6M sets, the FT-2000 6M Scale will be low.

In previous EVALUATION, the SWAN 250/250C(6M Scale = 0000/0000), HEATHKIT SB-110(6M Scale = 000), ICOM IC-551D(6M Scale = 000), ICOM IC-736(6M Scale = 0).

The additional Preamp is recommended only in the COLLINS 62S-1. The 10db+ Preamp will overload most 6M transceivers, the receiver noise will increase, and the S-Meter becomes just an indicator. Using the HP-8642A/001 Signal Generator, the previously used S9.0 = -93.0dbm (5.01uv) had been changed to S9.0 = -87.0dbm(9.99uv) so that the 6M receiver will properly accommodate strong power-line noise and signals.

I hope that this updated EVALUATION will be carefully read and applied by 50MHz amateurs and some HPer. Constructive comments and questions should be mailed to the writer with a legal size SASE.

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